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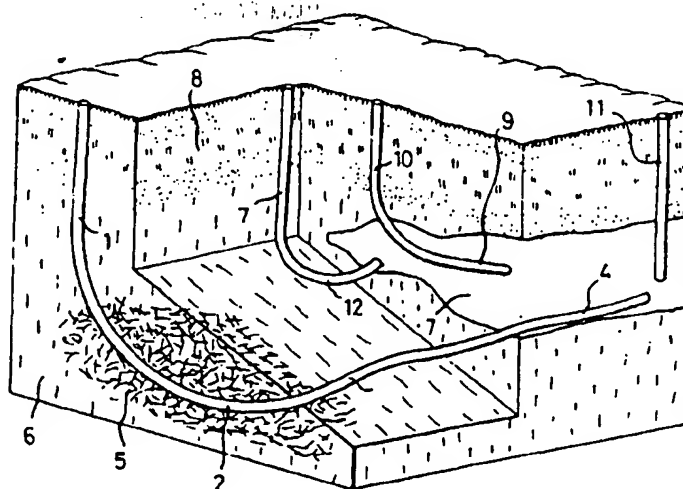
WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : E21B 43/24, 43/25, 10/32, 4/18, 7/06, 10/62, 10/26, F04C 2/16, F03C 2/30, F24J 3/08, E21B 43/30		A2	(11) International Publication Number: WO 94/21889 (43) International Publication Date: 29 September 1994 (29.09.94)
(21) International Application Number: PCT/GB94/00515 (22) International Filing Date: 15 March 1994 (15.03.94) (30) Priority Data: 9305532.5 17 March 1993 (17.03.93) GB 9317690.7 25 August 1993 (25.08.93) GB 9319994.1 28 September 1993 (28.09.93) GB 9321003.7 12 October 1993 (12.10.93) GB (71)(72) Applicant and Inventor: NORTH, John [GB/GB]; 15 Lilian Close, Hellesdon, Norwich, Norfolk NR6 6RZ (GB). (74) Agents: STURT, Clifford, Mark et al.; J. Miller & Co., 34 Bedford Row, Holborn, London WC1R 4JH (GB).		(81) Designated States: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published Without international search report and to be republished upon receipt of that report.	

(54) Title: IMPROVEMENTS IN OR RELATING TO DRILLING AND TO THE EXTRACTION OF FLUIDS



(57) Abstract

A first aspect of the invention provides a method of extracting fluid from a reservoir (7) of said fluid comprising the use of geothermal energy. Preferably, the method comprises the drilling of a well (11) into an area of geothermal energy (6) so as to enable release of the geothermal energy into the fluid reservoir (7). One configuration of wells is disclosed for the extraction of geothermal energy generally. In implementing the first aspect of the present invention it can be particularly beneficial to have the ability to drill horizontal and/or upwardly extending bores from a conventional downward extending well bore. Further aspects of the invention are concerned with the apparatus which enable such well bores to be drilled. These tools include: an adjustable reamer/stabiliser, a thrust calliper, a positive displacement drilling motor, a trajectory control unit, and ultralobe cavity trirotor positive displacement pump/motor, a trirotor mud drilling motor and a compensating underreamer.